L Number	Hits	Search Text	DB	Time stamp
-	1	JP-10164521-$.did.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/11 14:02
-	1	JP11320295	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/11 14:02
-	1196	358/1.16.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 07:59
-	18	((broadcast adj signal$1) with print$3) and image	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 08:09
-	45	((broadcast adj signal$1) with print$3)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 08:10
-	33	((broadcast adj signal$1) with print$3) and @ad<19991110	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 10:37
-	4172	"vertical blanking interval"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 08:18
-	1	(((broadcast adj signal$1) with print$3) and @ad<19991110) and "vertical blanking interval"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 08:18
-	16	"vertical blanking interval" and ((((broadcast television RF "radio frequency") adj signal$1) with print$3) and @ad<19991110)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 08:21
-	409	(((broadcast television RF "radio frequency") adj signal$1) with print$3) and @ad<19991110	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 08:40
-	41396	358/$.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 08:40
-	62	((((broadcast television RF "radio frequency") adj signal$1) with print$3) and @ad<19991110) and 358/$.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 08:40
-	0	9298720.URPN.	USPAT	2004/08/12 10:37
-	2	"08109182" or "09298720"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 10:39
-	0	08109182.pran.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 10:41
-	0	8109182.pran.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 10:49

-	1046	19960430.prad.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 10:42
-	267	19960430.prad. and JP.prco.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 10:42
-	0	109182.pran.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 10:45
-	0	040799.pran.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 10:49
-	0	205502.pran.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 10:51
-	27	"Nagahashi, Toshinori".in.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 11:01
-	19	"Shidara, Teruyuki".in.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 11:35
-	25106	(quantity or amount) near2 (paper or sheet)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 11:37
-	1366	((quantity or amount) near2 (paper or sheet)) with (significant or adequate or enough or sufficient)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 11:37
-	37	(((quantity or amount) near2 (paper or sheet)) with (significant or adequate or enough or sufficient)) and 358/$.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 11:38
-	24	((((quantity or amount) near2 (paper or sheet)) with (significant or adequate or enough or sufficient)) and 358/$.ccls.) and @ad<19991110	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 13:39
-	2841	priority with print$3	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 13:39
-	1811	(priority with print$3) and @ad<19991110	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 13:45
-	519	((priority with print$3) and @ad<19991110) and 358/$.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 13:40
-	364	(((priority with print$3) and @ad<19991110) and 358/$.ccls.) and high	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 13:41

-	133	((high adj priority) with print$3) and @ad<19991110	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 13:46
-	38	(((high adj priority) with print$3) and @ad<19991110) and 358/$.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 14:16
-	21	"category code" with print$3	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 14:19
-	14017	(((code tag mark) with print$3) and (coincide match))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 14:21
-	2141	(((code tag mark) with print$3) same (coincide match))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 14:21
-	973	(((code tag mark) with print$3) with (coincide match))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 14:25
-	140	((((code tag mark) with print$3) with (coincide match))) and 358/$.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 14:21
-	77	(((((code tag mark) with print$3) with (coincide match))) and 358/$.ccls.) and @ad<19991110	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 14:21
-	1437	(((code tag mark identify) with print$3) with (coincide match compare))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 14:26
-	209	((((code tag mark identify) with print$3) with (coincide match compare))) and 358/$.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 14:26
-	119	(((((code tag mark identify) with print$3) with (coincide match compare))) and 358/$.ccls.) and @ad<19991110	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 15:01
-	92	"print frequency"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 15:01
-	75	"print frequency" and @ad<19991110	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 15:01
-	10	("print frequency" and @ad<19991110) and 358/$.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 15:03
-	8414	(high adj frequency) same print$3	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 15:13

-	400	((high adj frequency) same print$3) and 358/$.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 15:04
-	311	(((high adj frequency) same print$3) and 358/$.ccls.) and @ad<19991110	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 15:08
-	267	((((high adj frequency) same print$3) and 358/$.ccls.) and @ad<19991110) and stor$3	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 15:09
-	435	(((high adj (frequency amount number)) same print$3) same stor$3)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 15:15
-	44	((((high adj (frequency amount number)) same print$3) same stor$3)) and 358/$.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/12 15:15
-	38	(((((high adj (frequency amount number)) same print$3) same stor$3)) and 358/$.ccls.) and @ad<19991110	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/13 09:27
-	446	(amount adj time$1) near2 print$3	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/13 09:35
-	281	((amount adj time$1) near2 print$3) and @ad<19991110	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/13 09:29
-	62	(((amount adj time$1) near2 print$3) and @ad<19991110) and 358/$.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/13 09:29
-	1679	((amount or number) adj times) near2 print$3	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/13 09:35
-	1138	(((amount or number) adj times) near2 print$3) and @ad<19991110	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/13 09:36
-	198	((((amount or number) adj times) near2 print$3) and @ad<19991110) and 358/$.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/13 09:36
-	5	("4745560" | "5008552" | "5434404" | "5682227" | "5764371").PN.	USPAT	2004/08/13 10:00
-	2	("5880728" | "6219454").PN.	USPAT	2004/08/13 10:05
-	32	coupon with print$3 with television	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/13 10:57

PAT-NO: JP409298720A

DOCUMENT-IDENTIFIER: JP 09298720 A

TITLE: TELEVISION BROADCAST EQUIPMENT, TELEVISION BROADCAST METHOD, LABEL DATA SIGNAL RECEIVER AND LABEL DATA SIGNAL RECEPTION METHOD

PUBN-DATE: November 18, 1997

INVENTOR-INFORMATION:

NAME	COUNTRY
SHIDARA, TERUYUKI	

ASSIGNEE-INFORMATION:

NAME	COUNTRY
SONY CORP	N/A

APPL-NO: JP08109182

APPL-DATE: April 30, 1996

INT-CL (IPC): H04N007/08 , H04N007/081 , G11B027/00 , H04N005/7826 , G11B023/38

ABSTRACT:

PROBLEM TO BE SOLVED: To print out a label for a video cassette of a desired television(TV) broadcast program by receiving a TV broadcast signal on which a label data signal is multiplexed.

SOLUTION: A TV broadcast signal on which a label data signal is multiplexed is received by an antenna 28 and fed to a data broadcast reception circuit 21. The label data signal is extracted by a data broadcast reception circuit 21 decoded into label data by a label data decoder 22 and stored in a RAM 24. According to a prescribed operation of an operation panel 26 by the user, a controller 25 instructs print-out of a prescribed label to a printer 23 via the label data decoder 22. The printer 23 according to this instruction reads and prints out prescribed label data from the RAM 24 via the label data decoder 22. A label is printed out at video recording or reproduction of a TV broadcast program by combining the label data signal receiver and a video cassette recorder(VCR). Furthermore, the label is edited and printed out by combining the label data signal receiver and a label wordprocessor.

COPYRIGHT: (C)1997,JPO

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]
[0001]
[Field of the Invention] Television broadcasting equipment multiplexes and transmits a label data signal to a television broadcasting signal at television broadcasting equipment and the television broadcasting approach list about a label data signal receiving set and the label data signal receiving approach, and especially this invention relates to a label data signal receiving set and the label data signal receiving approach at the television broadcasting equipment with which the label data signal receiving set printed the predetermined label which receives a label data signal and corresponds, and the television broadcasting approach list.
[0002]
[Description of the Prior Art] The user sticks the label which wrote the contents of inclusion to the side face and tooth back of the videocassette which holds a video tape beforehand, or was made to use the tape navigation system which makes predetermined CRT display the contents recorded on it at the time of playback of a video tape as an approach for getting to know the contents recorded on the video tape conventionally.
[0003] VCR (Video Cassette Recorder) which has the function can save the image transcription program information (index information) for every video tape, and he is trying to also record index information on a video tape in a tape navigation system at the time of the image transcription of desired TV (Television) program. Therefore, the contents of inclusion of a video tape can be displayed on CRT using this index information.
[0004]
[Problem(s) to be Solved by the Invention] However, when a label was stuck on a videocassette, a user needs to prepare the label for the videocassettes of desired TV program by himself, and had a time-consuming technical problem.
[0005] Moreover, when using a tape navigation system, in order to display the contents of inclusion of a video tape, it is required to play a video tape, for example, looking for the video tape on which desired TV program was recorded out of many video tapes had a difficult technical problem.
[0006] This invention is made in view of such a situation, and enables it to print the label for the videocassettes of desired TV program automatically.
[0007]
[Means for Solving the Problem] Television broadcasting equipment according to claim 1 is characterized by having a generating means to generate the label data signal corresponding to the label of a television broadcasting program stuck on the cassette which holds a record medium, and a generation means to multiplex a label data signal to the signal of a television broadcasting program, and to generate a television broadcasting signal.
[0008] The television broadcasting approach according to claim 2 is characterized by generating the label data signal corresponding to the label of a television broadcasting program stuck on the cassette which holds a record medium, multiplexing a label data signal to the signal of a television broadcasting

program, and generating a television broadcasting signal.

[0009] A label data signal receiving set according to claim 3 is characterized by having a receiving means to receive a label data signal, a decoding means to decode a label data signal, and an are recording means to accumulate the label data decoded and obtained from the television broadcasting signal with which the label data signal corresponding to the label of a television broadcasting program stuck on the cassette which holds a record medium is multiplexed.

[0010] The label data signal receiving approach according to claim 9 is characterized by accumulating the label data which received the label data signal, decoded the label data signal, and was decoded and obtained from the television broadcasting signal with which the label data signal corresponding to the label of a television broadcasting program stuck on the cassette which holds a record medium is multiplexed.

[0011] In television broadcasting equipment according to claim 1, the label data signal corresponding to the label of a television broadcasting program which a generating means sticks on the cassette which holds a record medium is generated, and a generation means multiplexes a label data signal to the signal of a television broadcasting program, and generates a television broadcasting signal.

[0012] In the television broadcasting approach according to claim 2, the label data signal corresponding to the label of a television broadcasting program stuck on the cassette which holds a record medium occurs, a label data signal is multiplexed by the signal of a television broadcasting program, and a television broadcasting signal is generated.

[0013] In a label data signal receiving set according to claim 3, from the television broadcasting signal with which the label data signal corresponding to the label of a television broadcasting program which a receiving means sticks on the cassette which holds a record medium is multiplexed, a label data signal is received, a decoding means decodes a label data signal, and an are recording means accumulates the label data decoded and obtained.

[0014] In the label data signal receiving approach according to claim 9, the label data which the label data signal was received, and the label data signal was decoded, decoded, and was obtained from the television broadcasting signal with which the label data signal corresponding to the label of a television broadcasting program stuck on the cassette which holds a record medium is multiplexed is accumulated.

[0015]

[Embodiment of the Invention] Although the example of this invention is explained below, it is as follows, when an example [/ in the parenthesis after each means] (however, an example) is added and the description of this invention is described, in order to carry out correspondence relation between each means given in a claim, and the following examples for whether being **. However, of course, this publication does not mean limiting to what indicated each means.

[0016] A generating means to generate the label data signal corresponding to the label of the television broadcasting program which sticks television broadcasting equipment according to claim 1 on the cassette which holds a record medium (for example, label data generating circuit 12 of drawing 1), A generation means to multiplex a label data signal to the signal of a television broadcasting program, and to generate a television broadcasting signal (for example, multiplexer 13 of drawing 1), It is characterized by having an output means (for example, sending set 14 of drawing 1) to output the television broadcasting signal generated by the generation means.

[0017] A label data signal receiving set according to claim 3 From the television broadcasting signal with which the label data signal corresponding to the label of a television broadcasting program stuck on the cassette which holds a record medium is multiplexed A receiving means to receive a label data signal (for example, data-broadcasting receiving circuit 21 of drawing 2), It is characterized by having a decoding means (for example, label data decoder 22 of drawing 2) to decode a label data signal, and an are recording means (for example, RAM24 of drawing 2) to accumulate the label data decoded and obtained.

[0018] A label data signal receiving set according to claim 4 is characterized by having further a notice means (for example, LED27 of drawing 2) to notify outside that a label can be printed, when label data is accumulated in an are recording means.

[0019] A label data signal receiving set according to claim 5 is characterized by having further an actuation means (for example, control panel 26 of drawing 2) to operate it when performing printing corresponding to label data to a label, and a printing means (for example, printer 23 of drawing 2) to print a label corresponding to predetermined actuation of an actuation means.
[0020] A label data signal receiving set according to claim 6 is characterized by having further a display means (for example, liquid crystal display 57 of drawing 6) to display the label corresponding to the label data accumulated in the are recording means.
[0021] A label data signal receiving set according to claim 7 is characterized by having further a generation means (for example, control unit 55 of drawing 6) to correct the label displayed on the display means and to generate label data.
[0022] A label data signal receiving set according to claim 8 is characterized by having further the record playback means (for example, record regenerative apparatus 37 of drawing 5) which carries out record playback of the label data signal.
[0023] Drawing 1 is the block diagram showing the configuration of one example of TV broadcast equipment 1 of this invention.
[0024] The predetermined video signal and predetermined sound signal of TV program are generated by the TV signal generating circuit 11, and are made as [output / to a multiplexer 13].
[0025] The label data generating circuit 12 generates the label data signal corresponding to the label for the videocassettes of predetermined TV program, and is made as [output / to a multiplexer 13]. This label data signal corresponds to the label for the tooth backs of the video tape of VHS. This label is made as [consist of / bit map data of the monochrome (monochrome) of 80x480 dots which has abbreviation 2cmx12cm magnitude].
[0026] A multiplexer 13 inserts a label data signal on the predetermined horizontal scanning line of the vertical blanking interval of a video signal, and is made as [multiplex / to TV broadcast signal] so that it may have bit map data for labels of dozens of dots in one frame. It is made as [give /, respectively / the initiation frame and termination frame of the label data which constitutes a predetermined label / the tag data in which an initiation frame or a termination frame is shown]. Moreover, the label data which constitutes the label of predetermined TV program is same TV program, and is made as [carry out / repeat transmission].
[0027] TV broadcast signal with which the label data signal was multiplexed is made as [output] as an electric wave from the antenna 2 through the sending circuit 14.
[0028] In addition, although the label data signal corresponding to the label for the videocassettes of VHS is generated and TV broadcast signal multiplexes, the label data signal corresponding to the label for videocassettes, such as 8mm and DVC, or the label data signal corresponding to all them is generated, and you may make it multiplex to TV broadcast signal in the example of drawing 1 . In that case, the header for identifying various kinds of labels is given for every label data of various kinds of.
[0029] Moreover, although TV broadcast equipment 1 of drawing 1 carried out supposing analog broadcasting to making the scan line of the vertical blanking interval of a video signal multiplex a label data signal, in the case of digital broadcasting, it is also possible to packet-ize label data and to transmit it. That is, in the case of digital broadcasting, the packet of label data is transmitted with the program attached information packet in which the information accompanying programs, such as a program schedule information packet used for the image packet of the compressed video data, the packetized voice of the compressed voice data, EPG (Electronic Playing Guide), etc., and a program title, title information, is included.
[0030] Drawing 2 is the block diagram showing the configuration of one example of the label data signal receiving set of this invention.
[0031] It is received by the antenna 28 and TV broadcast signal with which the label data signal is multiplexed is made as [supply / the data-broadcasting receiving circuit 21].
[0032] The data-broadcasting receiving circuit 21 extracts the label data signal multiplexed by TV broadcast signal, and is made as [supply / the label data decoder 22].
[0033] The label data decoder 22 decodes a label data signal, generates the label data which constitutes

the label for videocassettes, and is made as [make / RAM24 / memorize]. Since bit map data of dozens of dots are contained in TV broadcast signal at one frame, the label data (bit map data of 80x480 dots) corresponding to one label is memorized by RAM24 in several seconds. If the label data corresponding to one label is memorized by RAM24, the signal which notifies this is supplied to a control panel 26 from the label data decoder 22, and it is made as [light up / LED (light emitting diode)27 of a control panel 26].

[0034] The printer 23 is made as [print / the label for videocassettes] using the label data (bit map data) corresponding to the predetermined label supplied from RAM24 through the label data decoder 22.

[0035] After a user checks lighting of LED27 of a control panel 26, he is made by predetermined actuation of a control panel 26 as [direct / to the label data signal receiving set of drawing 2 / printing of a desired label].

[0036] The control device 25 is made according to the directions instruction of a user inputted through a control panel 26 as [control / various kinds of actuation of a label data signal receiving set]. That is, through the label data decoder 22, printing of a label is directed to a printer 23, or it is made as [direct / in the data-broadcasting receiving circuit 21 / the channel selection of predetermined TV program].

[0037] Next, processing actuation of the label data signal receiving set shown in drawing 2 is explained with reference to the flow chart of drawing 3 .

[0038] When the channel selection instruction of TV program for which a user asks is directed to a control device 25 by predetermined actuation of a control panel 26 at step S1 of drawing 3 , a control device 25 makes TV program specified as the data-broadcasting receiving circuit 21 tune in.

[0039] The data-broadcasting receiving circuit 21 judges whether the label data signal is multiplexed on the predetermined horizontal scanning line of the vertical blanking interval of a video signal at continuing step S2. When it is judged that the label data signal is not multiplexed on the predetermined horizontal scanning line of the vertical blanking interval of a video signal, it branches to step S1 and reception of TV broadcast signal is performed again.

[0040] When it is judged that the label data signal is multiplexed on the predetermined horizontal scanning line of the vertical blanking interval of a video signal, the data-broadcasting receiving circuit 21 supplies a label data signal to the label data decoder 22 at continuing step S3. The label data decoder 22 deletes header information, changes it into the predetermined label data which a printer 23 can print, and RAM24 is made to memorize it from a label data signal.

[0041] By continuing step S4, it is judged whether the label data which constitutes a predetermined label was memorized by RAM24, when the label data which constitutes a predetermined label is judged that RAM24 does not memorize, it branches to step S1 and processing after it is performed.

[0042] When the label data which constitutes a predetermined label is judged that RAM24 memorized, the label data decoder 22 makes LED27 of a control panel 26 turn on at step S5.

[0043] Processing of the waiting for the input of directions is performed until predetermined actuation of directing a user's printing is performed at continuing step S6. By the waiting processing for an input at this time, when the label data signal of the following TV program is received, lighting of LED29 goes out and it branches to the processing after step S1 again.

[0044] A user recognizes that it can print by lighting of LED29, and if predetermined actuation for directing printing of a label to a label data signal receiving set is performed, the indication signal corresponding to this actuation will be inputted into a control unit 25 from a control panel 26 at step S7. A control device 25 directs printing of the label data memorized by the printer 23 at RAM24 through the label data decoder 22 according to this. Corresponding to this, a printer 23 prints by reading predetermined label data from RAM24 through the label data decoder 22.

[0045] Thus, the label data signal multiplexed by TV broadcast signal of predetermined TV program can be extracted, and the desired label stuck on the tooth back of a videocassette can be printed automatically. Moreover, since the label signal corresponding to the TV program is transmitted repeatedly, as the period when predetermined TV program is broadcast was a program, when reception is started from from, it can print the label for videocassettes corresponding to desired TV program.

[0046] Drawing 4 is the block diagram showing the configuration of one example of VCR adapting a label data signal receiving set.

[0047] It is received by the antenna 40 and TV broadcast signal with which the label data signal is multiplexed is made as [supply / TV broadcast receiving circuit 31 and the data-broadcasting receiving circuit 32].

[0048] TV broadcast receiving circuit 31 tunes in TV program specified by a user, and is made as [output / to the image speech processing circuit 36 / the video signal and sound signal].

[0049] The image speech processing circuit 36 processes recovery, magnification, etc. to the video signal and sound signal which were supplied from TV broadcast receiving circuit 31, and is made as [supply / a sound signal / supply a video signal to CRT41 and / to a loudspeaker 42 /, respectively].

[0050] The data-broadcasting receiving circuit 32 extracts the label data signal multiplexed by TV broadcast signal, and is made as [supply / the label data decoder 33].

[0051] The label data decoder 33 decodes a label data signal, generates the label data which constitutes the label for videocassettes, and is made as [make / RAM35 / memorize]. RAM's35 storage of the label data corresponding to one label makes the label data decoder 33 as [make / LED43 of a control panel 39 / turn on].

[0052] The printer 34 is made as [print / the label for videocassettes] using the label data corresponding to the predetermined label supplied from RAM35 through the label data decoder 33.

[0053] The record regenerative apparatus 37 is made as [reproduce / according to predetermined actuation of a user's control panel 39, / record on videotape the predetermined video signal and predetermined sound signal of TV program which are supplied from the image speech processing unit 36, or].

[0054] The control unit 38 is made as [control / various kinds of actuation of VCR] according to the directions instruction of a user inputted through a control panel 39.

[0055] After a user checks lighting of LED43, he is made as [direct / to VCR shown in drawing 4 / by predetermined actuation of a control panel 39 / printing of a desired label]. That is, if printing of a predetermined label is directed to a control device 38 through a control panel 39, a control device 38 directs printing of a label to a printer 34 through the label decoder 33. According to these directions, a printer 34 prints by reading predetermined label data from RAM35 through the label decoder 35. In addition, since processing actuation of VCR shown in drawing 4 at this time is the processing shown in the flow chart of drawing 3 , and the same processing, that explanation is omitted.

[0056] Thus, while building a label data signal receiving set into VCR and recording desired TV program on videotape, the label for the videocassettes of the TV program can be printed.

[0057] Drawing 5 is the block diagram showing other examples of VCR adapting label data signal carrier equipment. In VCR shown in drawing 5 , the same sign is given to the case of drawing 4 , and the corresponding part, and the explanation is omitted suitably. VCR shown in drawing 5 is made as [print / at the time of an image transcription and playback / the label for predetermined videocassettes].

[0058] The record regenerative apparatus 37 shown in drawing 5 is made as [record / the label data signal supplied from the data-broadcasting receiving circuit 32] while recording on videotape the sound signal and video signal which are supplied from the image speech processing circuit 36. That is, it is made as [record / a label data signal / on the horizontal scanning line of the vertical blanking interval of a video signal / multiplex and]. And at the time of playback, while outputting a video signal and a sound signal to the image speech processing circuit 36, it is made as [supply / to the label data decoder 33 / a label data signal]. In addition, when TV broadcast signal is digital broadcasting, it is made to record on a video tape by using the packet of label data as subdata.

[0059] Thus, the label for videocassettes can be printed at the time of the image transcription of predetermined TV program, or playback. In addition, it is possible to change into an OSD video signal the label data which constitutes a predetermined label in the video-signal processing circuit 36, and to make it also make CRT41 and the OSD display which is not illustrated display it at the time of playback of a video tape.

[0060] Drawing 6 is the block diagram showing the configuration of one example of the label word processor adapting a label data signal receiving set.

[0061] It is received by the antenna 58 and TV broadcast signal with which the label data signal is multiplexed is made as [supply / the data-broadcasting receiving circuit 51].
[0062] The data-broadcasting receiving circuit 51 extracts the label data signal multiplexed by TV broadcast signal, and is made as [supply / the label data decoder 52].
[0063] The label data decoder 52 decodes a label data signal, generates the label data which constitutes the label for videocassettes, and is made as [make / RAM54 / memorize]. RAM's54 storage of the label data corresponding to one label makes the label data decoder 52 as [make / LED59 of a control panel 56 / turn on].
[0064] The printer 53 is made as [print / the label for videocassettes] using the label data corresponding to the predetermined label supplied from RAM54 through the label data decoder 52.
[0065] After a user checks lighting of LED59, he is made as [direct / edit of the label corresponding to the label data memorized by RAM54 to the control device 55 by predetermined actuation of a control panel 56].
[0066] It is made and a control device 55 shines so that the label which is made to display the label which reads predetermined label data and corresponds on a liquid crystal display 57, and is displayed on the liquid crystal display 57 according to actuation of a user's control panel 56 from RAM54 may be edited through the label data decoder 52 according to these directions. Moreover, the edited label data is made as [memorize / RAM54].
[0067] The user is made as [direct / by predetermined actuation of a control panel 56 / printing of the label currently displayed on the liquid crystal display 57].
[0068] Thus, the label data transmitted by the label data signal multiplexed by TV broadcast signal can be decoded, and it can edit by displaying the label corresponding to it. Moreover, it is possible to print the label which added desired correction.
[0069] The label data signal corresponding to a predetermined label as mentioned above can be multiplexed and transmitted to TV broadcast signal, a label data signal receiving set can receive this, and a desired label can be printed alternatively.
[0070] Moreover, the label for videocassettes corresponding to the program can be printed by combining a label data signal receiving set and VCR at the time of the image transcription of desired TV program, or playback.
[0071] Furthermore, while displaying a desired label and adding edit by combining a label data signal receiving set and a label word processor, the label with which edit was performed can be printed.
[0072] In addition, in the above-mentioned example, although the label data corresponding to the label for the videocassettes of VHS is transmitted and the label for the videocassettes of VHS is printed with a label data signal receiving set, it is also possible to be the printer 53 of a label data signal receiving set, for example, to process contraction, expansion, etc., and to print the label for the videocassettes of 8mm or DVC. Moreover, you may make it print the label for cassettes which holds other record media, such as an optical disk besides [which holds a video tape] a cassette.
[0073] Furthermore, although monochromatic (monochrome) bit map data were used, you may make it use the data of graphic form information, such as data which compressed color-bits map data using the predetermined compression method, and a circle, a square or a character code, as label data.
[0074]
[Effect of the Invention] Since the label data signal corresponding to the label of a television broadcasting program stuck on the cassette which holds a record medium is generated, a label data signal is multiplexed to the signal of a television broadcasting program and the television broadcasting signal was generated according to television broadcasting equipment according to claim 1 and the television broadcasting approach according to claim 2 as mentioned above, the system which prints the label for the videocassettes of desired TV program is realizable.
[0075] According to a label data signal receiving set according to claim 3 and the label data signal receiving approach according to claim 9 From the television broadcasting signal with which the label data signal corresponding to the label of a television broadcasting program stuck on the cassette which holds a record medium is multiplexed Since the label data which received the label data signal, decoded

the label data signal, and was decoded and obtained was accumulated, a user can choose and print the label for the videocassettes of desired TV program.

[Translation done.]

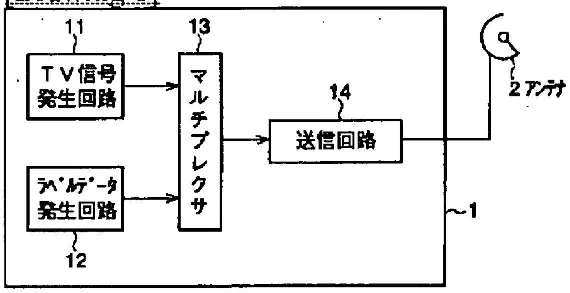
* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

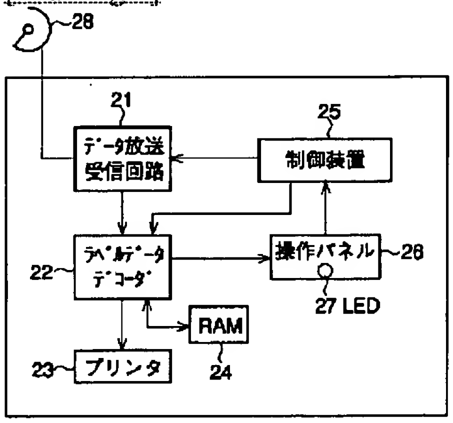
DRAWINGS

[Drawing 1]


11
13
TV信号発生回路
マルチプレクサ
14
送信回路
2 ｱﾝﾃﾅ
ﾗﾍﾞﾙﾃﾞｰﾀ発生回路
~1
12

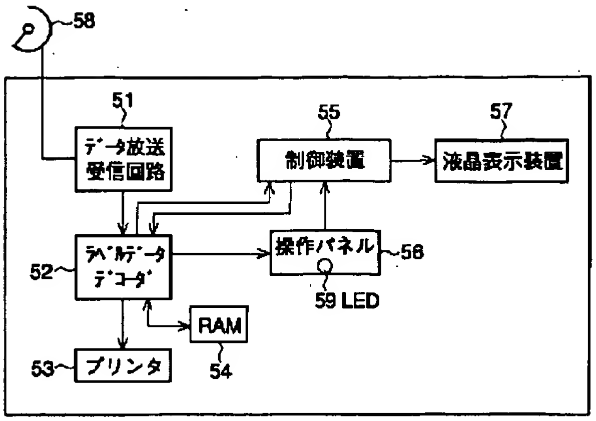
TV放送装置1

[Drawing 2]


~28
21
25
ﾃﾞｰﾀ放送受信回路
制御装置
22~
ﾗﾍﾞﾙﾃﾞｰﾀﾃﾞｺｰﾀﾞ
操作ﾊﾟﾈﾙ
~28
27 LED
RAM
23~
プリンタ
24

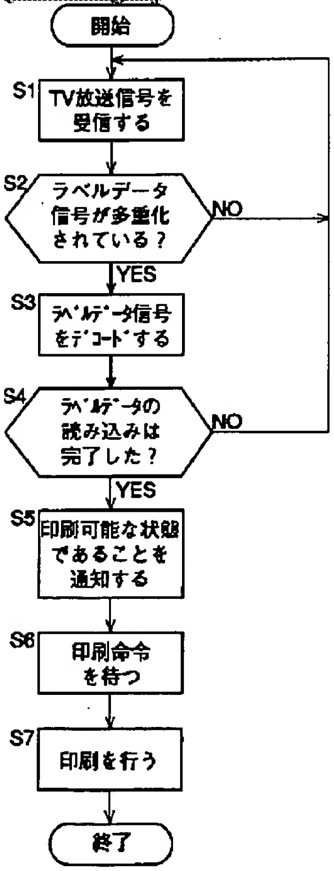
ラベルデータ信号受信装置

[Drawing 6]

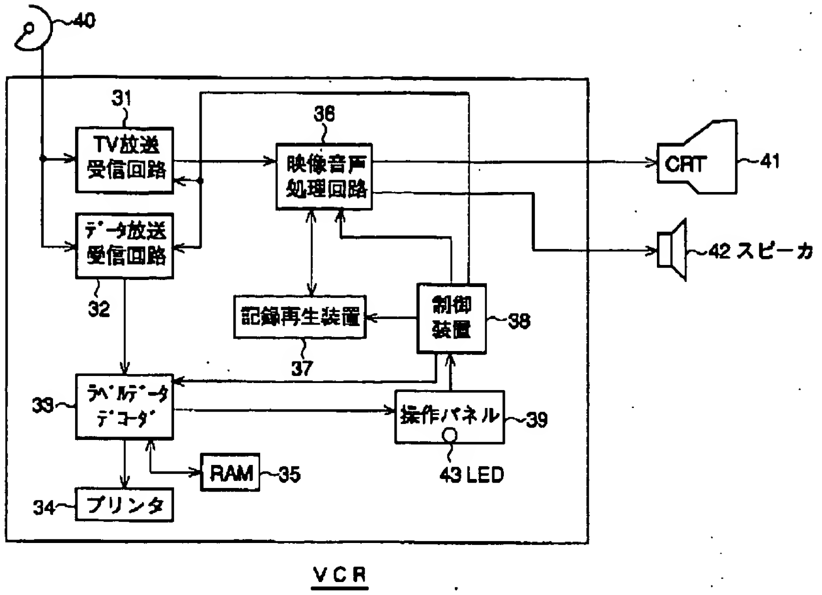

58
51
ﾃﾞｰﾀ放送受信回路
55
制御装置
57
液晶表示装置
52
ﾗﾍﾞﾙﾃﾞｰﾀﾃﾞｺｰﾀﾞ
操作パネル
56
59 LED
RAM
54
53
プリンタ

ラベルワードプロセッサ

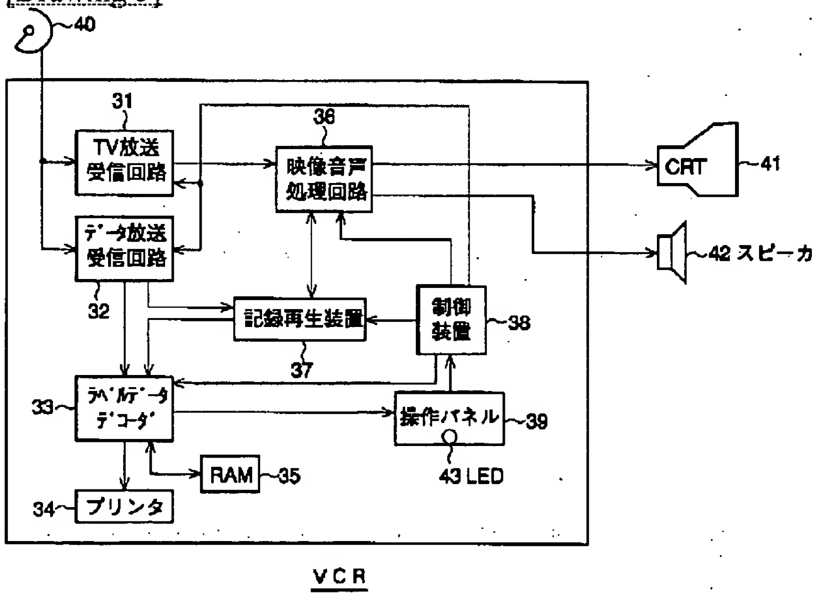
[Drawing 3]


開始
S1
TV放送信号を受信する
S2
ラベルデータ信号が多重化されている？
NO
YES
S3
ﾗﾍﾞﾙﾃﾞｰﾀ信号をﾃﾞｺｰﾄﾞする
S4
ﾗﾍﾞﾙﾃﾞｰﾀの読み込みは完了した？
NO
YES
S5
印刷可能な状態であることを通知する
S6
印刷命令を待つ
S7
印刷を行う
終了

[Drawing 4]


40
31
TV放送受信回路
36
映像音声処理回路
CRT
41
データ放送受信回路
42 スピーカ
32
記録再生装置
制御装置
38
37
33
ラベルデータデコーダ
操作パネル
39
43 LED
RAM
35
34
プリンタ
VCR

[Drawing 5]


40
31
TV放送受信回路
36
映像音声処理回路
CRT
41
データ放送受信回路
42 スピーカ
32
記録再生装置
制御装置
38
37
33
ラベルデータデコーダ
操作パネル
39
43 LED
RAM
35
34
プリンタ
VCR

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]
[Drawing 1] It is the block diagram showing the configuration of one example of the television broadcasting equipment of this invention.
[Drawing 2] It is the block diagram showing the configuration of one example of the label data signal receiving set of this invention.
[Drawing 3] It is a flow chart explaining processing actuation of the label data signal receiving set of drawing 2 .
[Drawing 4] It is the block diagram showing the configuration of one example of VCR adapting a label data signal receiving set.
[Drawing 5] It is the block diagram showing the configuration of one example of other VCR adapting a label data signal receiving set.
[Drawing 6] It is the block diagram showing the configuration of one example of the label word processor adapting a label data signal receiving set.
[Description of Notations]
1 TV Broadcast Equipment Two Antennas 11 TV signal generating circuit 12 A label data generating circuit, 13 Multiplexer 14 A sending circuit, 21 Data-broadcasting receiving circuit 22 label data decoder 23 A printer, 24RAM 25 Control unit 26 control panel 27 LED 28 antenna 31 TV broadcast receiving circuit, 32 Data-broadcasting receiving circuit 33 label data decoder 34 A printer, 35 RAM 36 An image speech processing circuit, 37 Record regenerative apparatus 38 control units, 39 Control panel 40 An antenna and 41 CRT 42 Loudspeaker 43 LED 51 data-broadcasting receiving circuit 52 Label data decoder 53 Printer 54 RAM 55 A control unit, 56 Control panel 57 A liquid crystal display, 58 Antenna 59 LED

[Translation done.]

PAT-NO:	JP411237966A
DOCUMENT-IDENTIFIER:	JP 11237966 A
TITLE:	METHOD AND SYSTEM FOR PRINTING TELEVISION BROADCAST MULTIPLEXED DATA, AND RECORDING MEDIUM RECORDED WITH TELEVISION BROADCAST MULTIPLEXED DATA PROCESSING PROGRAM
PUBN-DATE:	August 31, 1999

INVENTOR-INFORMATION:

NAME	**COUNTRY**
NAGAHASHI, TOSHINORI	N/A

ASSIGNEE-INFORMATION:

NAME	**COUNTRY**
SEIKO EPSON CORP	N/A

APPL-NO: JP10040799

APPL-DATE: February 23, 1998

INT-CL (IPC): G06F003/12 , B41J029/38 , H04N007/08 , H04N007/081

ABSTRACT:

PROBLEM TO BE SOLVED: To display information showing the existence of printing object data only on the television(TV) monitor of a user connecting a printer when displaying the information showing the existence of printing object data on the TV monitor.

SOLUTION: This TV broadcast multiplexed data printing system has a TV monitor 1 and a TV broadcast receiving part 2, the TV broadcast receiving part 2 demultiplexes multiplexed and sent IV broadcast signals and printing processing data through a multiplex/demultiplex part 21. and detects whether a printer 3 is connected or not through a printer connection detecting part 23 and when the connection of the printer 3 is recognized, data concerning the said printing are analyzed by a print data analytic part 25, the information showing the existence of these printing object data and the printing object data are provided, that information showing the existence of the printing object data is outputted to the TV monitor 1 while being synthesized with the TV broadcast signals (video data) and when a printing instruction receiving part 24 receives a printing instruction request from a user, the printing object data are outputted to the printer 3 and printed.

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]
[0001]
[Field of the Invention] This invention relates to the record medium which recorded the television broadcasting multiplexing data printing processing program on the television broadcasting multiplexing data printing approach and system list whose printing of the data multiplexed by the television broadcasting signal is enabled.
[0002]
[Description of the Prior Art] Various data are multiplexed to a television (henceforth TV) broadcasting electric-wave (satellite broadcasting service or ground wave), it transmits to TV system by the side of a viewer, and the design printed out by the printer by which the data which a viewer (it is called a user) needs were connected to TV is already proposed. As a concrete example, a certain goods are projected on TV screen, and the data (contents like a catalog the detailed contents about goods were indicated to be) to it are printed out, for example.
[0003] For example, while considering the example which prints out the data about a certain goods mentioned above projecting the goods on TV monitor, existing [the data for printing about the goods] **** information is displayed, and a user inputs printing directions, when the display is seen and detailed data are needed. Thereby, the detailed data about the goods are printed out.
[0004]
[Problem(s) to be Solved by the Invention] However, all users are not connecting the printer to TV system of self. If it sees for the user who is not connecting the printer, it will be thought that that the display of the purport to which print data exist one by one on TV screen is made also has many users who sense troublesome and sense displeasure that the display of the purport in which print data exist not much frequently is made. Furthermore, it becomes what demands the purchase of a printer tacitly from a user without a printer, and is not not much desirable.
[0005] Implementability will become very low even if it thinks of creating the contents of broadcast which have grasped many and unspecified users' of all system configuration although being the dispatch origin of TV broadcasting electric-wave, grasping the condition (****** [that there is a printer] etc.) of the system by the side of a user, creating the contents of broadcast corresponding to it, and transmitting is also considered in order to cope with this from the field of cost.
[0006] Then, this invention judges the existence of a printer by TV system by the side of a user, and it aims at enabling registration of the printing directions input from a user while it displays existence of the data for printing on TV monitor only within the case where the printer is connected.
[0007]
[Means for Solving the Problem] In order to attain the above-mentioned purpose, the TV broadcast multiplexing data printing approach according to claim 1 TV broadcast receive section receives the data about printing which is multiplexed by TV broadcast signal and this TV broadcast signal, and is sent to them. If the data about said printing are analyzed, the information which shows existence of the data for printing on TV monitor is displayed based on the analysis result and the printing directions from a user

are received In the TV broadcast multiplexing data printing approach which prints said data for printing using a printer said TV broadcast receive section While separating the data about TV broadcast signal and printing which are multiplexed and sent If it detects whether the printer is connected or not and detects that the printer is connected Analyze the data about said printing and the information and the data for printing in which existence of the data for printing is shown are obtained. If the information which shows existence of the data for printing is compounded to said TV broadcast signal, it outputs to said TV monitor and the printing directions from a user are received, he is trying to output said data for printing to said printer.

[0008] Moreover, the TV broadcast multiplexing data printing approach according to claim 2 TV broadcast receive section receives the data about printing which is multiplexed by TV broadcast signal and this TV broadcast signal, and is sent to them. If the data about said printing are analyzed, the information which shows existence of the data for printing on TV monitor is displayed based on the analysis result and the printing directions from a user are received It sets to the TV broadcast multiplexing data printing approach which prints said data for printing using a printer, Said TV broadcast receive section Separate the data about TV broadcast signal and printing which are multiplexed and sent, and the data about printing to said printer side in a delivery and printer side Analyze the data about printing handed by said TV broadcast receive section, and the information and the data for printing in which existence of the data for printing is shown are obtained. If the information which shows existence of said data for printing is compounded to said TV broadcast signal, it outputs to said TV monitor and the printing directions from a user are received, it will be made to carry out printing processing of said data for printing.

[0009] Moreover, TV broadcast multiplexing data printing system according to claim 3 TV broadcast receive section receives the data about printing which is multiplexed by TV broadcast signal and this TV broadcast signal, and is sent to them. If the data about said printing are analyzed, the information which shows existence of the data for printing on TV monitor is displayed based on the analysis result and the printing directions from a user are received In TV broadcast multiplexing data printing system which prints said data for printing using a printer said TV broadcast receive section The demultiplexing section which separates the data about TV broadcast signal and printing which are multiplexed and sent, The printer connection detecting element which detects whether the printer is connected or not, If it recognizes that the printer is connected based on the detection result of the printing directions receive section which receives the printing directions from a user, and said printer connection detecting element, the data about said printing will be analyzed. The information which shows existence of the data for printing, and the print-data analysis section which obtains the data for printing, The synthetic section which compounds the information which shows existence of the data for printing obtained by this print-data analysis section, and TV broadcast signal separated in said demultiplexing section, It is considering as the configuration with the video output section which outputs the image data from this synthetic section to TV monitor, and the printer control section which will perform printing control to a printer if the data for printing from said print-data analysis section are received.

[0010] Moreover, TV broadcast multiplexing data printing system according to claim 4 TV broadcast receive section receives the data about printing which is multiplexed by TV broadcast signal and this TV broadcast signal, and is sent to them. If the data about said printing are analyzed, the information which shows existence of the data for printing on TV monitor is displayed based on the analysis result and the printing directions from a user are received In TV broadcast multiplexing data printing system which prints said data for printing using a printer said TV broadcast receive section The data about printing which has at least the demultiplexing section which separates TV broadcast signal and the data about printing, and was separated in this demultiplexing section to a printer side delivery and said printer The information which analyzes the data about printing handed by the printing directions receive section which receives the printing directions from a user, and said TV broadcast receive section, and shows existence of the data for printing, and the print-data analysis section which obtains the data for printing, The synthetic section which compounds the information which shows existence of the data for printing obtained by this print-data analysis section, and TV broadcast signal separated in said demultiplexing

section, It is considering as the configuration with the video output section which outputs the image data from this synthetic section to TV monitor, and the printing processing section which will perform printing processing if the data for printing from said print-data analysis section are received.
[0011] Moreover, the record medium which recorded TV broadcast multiplexing data printing processing program according to claim 5 TV broadcast receive section receives the data about printing which is multiplexed by TV broadcast signal and this TV broadcast signal, and is sent to them. If the data about said printing are analyzed, the information which shows existence of the data for printing on TV monitor is displayed based on the analysis result and the printing directions from a user are received It is the record medium which recorded TV broadcast multiplexing data printing processing program which prints said data for printing using a printer. The TV broadcast multiplexing data printing processing program In said TV broadcast receive section, if said TV broadcast signal and printing processed data which were multiplexed are received If it detects whether the printer is connected with the procedure of separating these data and detects that the printer is connected The information which analyzes the data about said printing and shows existence of the data for printing, and the procedure of obtaining the data for printing, It is characterized by including the procedure which compounds the information which shows existence of the data for printing obtained by this to said TV broadcast signal, and is outputted to said TV monitor, and the procedure which will output said data for printing to a printer if the printing directions from a user are received.
[0012] Moreover, the record medium which recorded TV broadcast multiplexing data printing processing program according to claim 6 TV broadcast receive section receives the data about printing which is multiplexed by TV broadcast signal and this TV broadcast signal, and is sent to them. If the data about said printing are analyzed, the information which shows existence of the data for printing on TV monitor is displayed based on the analysis result and the printing directions from a user are received It is the record medium which recorded TV broadcast multiplexing data printing processing program which prints said data for printing using a printer. The TV broadcast multiplexing data printing processing program In said TV broadcast receive section, if said TV broadcast signal and printing processed data which were multiplexed are received Separate TV broadcast signal and the data about printing, and the data about printing are set to a printer side including the procedure outputted to said printer side. The information which analyzes the data about printing passed from said TV broadcast receive section, and shows existence of the data for printing, and the procedure of obtaining the data for printing, It is characterized by including the procedure which compounds the information which shows existence of said data for printing obtained by this to said TV broadcast signal, and is outputted to said TV monitor, and the procedure which will carry out printing processing of said data for printing if the printing directions from a user are received.
[0013] Thus, according to this invention, it detects whether the printer is connected in TV broadcast receive section. If the information which shows existence of the data for printing is compounded to said TV broadcast data, it outputs to said TV monitor and the printing directions demand from a user is received only when it detects that the printer is connected Since he is trying to output said data for printing to said printer, to a viewer's TV monitor to which a printer is not connected Since the information which shows existence of print data is not displayed at all, the user who is not connecting the printer does not need to look at the troublesome display of the purport in which print data exist one by one.
[0014] Moreover, TV broadcast receive section separates TV broadcast data and the data about printing. The data about printing to which the data about printing were handed by TV broadcast receive section in the delivery and printer side at said printer side are analyzed. If the information and the data for printing in which existence of the data for printing is shown are obtained, and the information which shows existence of said data for printing is compounded to said TV broadcast, it outputs to said monitor and the printing directions from a user are received The information which shows existence of the data for printing can make it not display without by connecting this printer by giving the function which carries out printing processing of said data for printing on a monitor. Also by this The user who is not connecting the printer to it like the above-mentioned since the information which shows that there are

print data is not displayed on a viewer's TV monitor to which a printer is not connected at all does not need to look at the troublesome display of the purport in which print data exist one by one.

[0015] Thus, this invention can be prevented from giving a user the displeasure by an unrelated screen display being made frequently by a screen display about unrelated printing being made not to be made not much for the user on TV monitor of a user without a printer. And since such processing can be performed by a user's TV system side, it is the dispatch origin of TV broadcast, the condition (****** [that there is a printer] etc.) of the system by the side of a user is grasped, and it can be managed even if it does not perform complicated processing in which create the contents of broadcast corresponding to it, and it transmits.

[0016]

[Embodiment of the Invention] Hereafter, the gestalt of operation of this invention is explained. In addition, with the gestalt of this operation, while introducing the goods used as the candidate for advertisement with the image data and voice data of TV broadcast signal supposing the case where a certain goods are advertized using TV, it shall multiplex to these TV broadcast signals, and the data about printing corresponding to those goods shall be transmitted. The data about this printing consist of information which shows that the detailed information (it is called the data for printing) about goods and its data for printing exist, and a thing like a goods catalog is considered as an example by the data for printing possible [not only text but the graphic information which shows a price, quality, a function, etc.].

[0017] (Gestalt of the 1st operation) Drawing 1 is a system configuration Fig. explaining the gestalt of operation of the 1st of this invention, and when it roughly divides, it is constituted by the TV monitor 1 and TV broadcast receive section 2.

[0018] TV broadcast receive section 2 By the tuner section 20 which chooses, the frequency, i.e., the channel, of TV broadcasting electric-wave, the demultiplexing section 21 which separates the data about printing multiplexed by TV broadcast signal (it consists of image data and voice data), and this TV broadcast signal, and this demultiplexing section 21 The separated voice data Whether the voice output section 22 to output and a printer 3 are connected If it recognizes that go to see the condition of the printer connection detecting element 23 to detect, the printing directions receive section 24 which receives the printing directions demand from a user, and said printer connection detecting element 23, and the printer is connected, the data about said printing will be analyzed. By the print-data analysis section 25 which obtains the information which shows existence of the data for printing, and the data for printing, and this print-data analysis section 25 Existence of the obtained data for printing The shown information and the image data separated in said demultiplexing section 22 If the data for printing from the image composition section 26 to compound, the video output section 27 which outputs the image data from this image composition section 26 to the TV monitor 1, and said print-data analysis section 25 are received, it has composition with the printer control section 28 which starts a printer 3 and performs printing control.

[0019] A concrete example is explained in such a configuration. As mentioned above, the case where a certain goods are advertized using TV broadcast here is assumed. While the image of the goods used as the candidate for advertisement projects on the TV monitor 1 with the image data and voice data of TV broadcast signal now, the explanation about the goods is made by voice. The data about printing multiplexed by these TV broadcast signals are sent to coincidence at the print-data analysis section 25.

[0020] At this time, the print-data analysis section 25 judges whether it goes to see the condition of the printer connection detecting element 23, and the printer 3 is connected. If the printer 3 is connected at this time, it is recognized and the data about printing separated in the demultiplexing section 21 are analyzed. The data about this printing are described from the language according to HTML (Hyper Text Markup Language), as shown in drawing 2 .

[0021] In drawing 2 , it is the range which the part surrounded with the tag <print_system> and the tag </print_system> processes. The part surrounded with this tag <print_system> and tag </print_system> It is what is processed only when the printer 3 is connected. The print-data analysis section 25 the printer 3 is connected -- ** -- the part surrounded with the tag <print_display> and the tag </print_display> when recognized -- That is, "Press" Print", then catalog will be printed out" are passed to the image composition section 26 in this case. In the image composition section 26, it compounds with the image data of TV broadcast signal with which this "Press" Print", then catalogwill be printed out" were separated in the demultiplexing section 21. The compounded image data is projected on the TV monitor 1 by the video output section 27.

[0022] Drawing 3 shows the contents projected on the TV monitor 1. Information, such as "Press" Print", then catalog will beprinted out", is shown by the example of drawing 3 as information 12 which indicates existence of the data for printing to be the image of the goods 11 which are the candidates for advertisement to the goods 11.

[0023] A user looks at the information 12 which shows existence of this data for printing, and when you want detailed information, he inputs a printing directions demand. Thereby, the printing directions receive section 24 receives the printing directions demand from a user, and tells the print-data analysis section 25 about it. The print-data analysis section 25 recognizes that there was a printing directions demand from a user, and sends the data for printing to the printer control section 28.

[0024] This data for printing is the part surrounded with the tag <print_document> and tag </print_document> of drawing 2 , and is contents which are called "Fashion Catalog", "Discount price is $300", etc. in this case. In addition, if original more detailed information, i.e., goods, is clothing as this data for printing, the quality of the ground, the class of size, the class of color, etc. are the so-called information like a goods catalog which consists of various information, but in order to simplify explanation, it is considering as the simplified contents here.

[0025] The printer control section 28 is passed by the print-data analysis section 25, a printer 3 is controlled by the printer control section 28, and printing starts such data for printing. Thereby, information, such as "Fashion Catalog" and "Discount priceis $300", is printed out from a printer 3.

[0026] Drawing 4 is a flow chart explaining the procedure of the gestalt of this 1st operation. Although there are also many parts which overlap old explanation, it explains further using this flow chart. First, a favorite channel is chosen by the tuner section 20 (step s1). And the demultiplexing section 21 separates image data, voice data, and the data about printing (step s2). Data concerning [voice data] printing to the voice output section 22 are sent for the image data separated here to the image composition section 26 to the print-data analysis section 25, respectively.

[0027] Next, it checks whether it goes for the print-data analysis section 25 to look at the condition of the printer connection detecting element 23, and the printer 3 is connected (step s3). Here, if the printer is connected (step s4), it will judge whether the print-data analysis section 25 analyzed the data about printing (step s5), and received the data about printing (step s6). If the data about printing are received, as mentioned above as information which shows existence of the data for printing, contents, such as "Press" Print", then catalog will be printed out", will be first passed to the image composition section 26 (step s7).

[0028] In the image composition section 26, it compounds to the image data of TV broadcast of such contents, and it is sent to the video output section 27 (step s8).

[0029] And if it judges whether the printing directions receive section 24 received the printing directions demand from a user (step s9) and a printing directions demand is received, printing directions will be taken out to the print-data analysis section 25 (step s10). In response, delivery (step s11) and the printer control section 28 control a printer 3 to the printer control section 28, and, thereby, as for the print-data analysis section 25, printing starts print data to it (step s12).

[0030] Thus, only when the printer is connected to TV system by the side of a user, the information which shows existence of the data for printing is displayed on the TV monitor 1, and when the user who looked at it inputs a printing directions demand, the data for printing are printed out from a printer 3.

[0031] Therefore, the information which shows that there are data for printing to a user's TV monitor 1 to which a printer is not connected is not displayed at all, but only TV broadcast from the first is broadcast. That is, in this example, while the image over goods 11 projects on the TV monitor 1, it is [that explanation with voice is only made, and], and the information which shows that the data for printing exist is not displayed.

[0032] That is, since it is detected by the printer connection detecting element 23 that the printer 3 is not connected when the printer 3 is not connected, the print-data analysis section 25 recognizes it, and even if it receives the data about printing from which the demultiplexing section 21 dissociated, processing (processing of step s5 in drawing 4 to the step s12) which was mentioned above to the data about the printing is not performed.
[0033] Therefore, the user who is not connecting a printer since the information which shows existence of the data for printing to a user's TV monitor to which a printer 3 is not connected is not displayed at all does not need to look at the troublesome display of the purport in which the data for printing exist one by one, and loses giving the displeasure by the display which is almost unrelated for the user who does not connect a printer being made.
[0034] And since such processing can be performed by a user's TV system side, it is the dispatch origin of TV broadcast, the condition (****** [that there is a printer] etc.) of the system by the side of many users is grasped, and it can be managed even if it does not perform complicated processing in which create the contents of broadcast corresponding to it, and it transmits.
[0035] In addition, in the gestalt of this 1st operation, TV broadcast receive section 2 may constitute as a device prepared separately from TV equipment called STB (set box) generally used well also as a configuration united with the TV monitor 1, or IRD (integrated receiver decoder).
[0036] (Gestalt of the 2nd operation) The gestalt of this 2nd operation is the example which established the received-data analysis section mentioned above, the image composition section, the video output section, and a printing directions receive section in the printer 3.
[0037] Drawing 5 is a system configuration Fig. explaining the gestalt of the 2nd operation, it consists of the TV monitor 1, a TV broadcast receive section 2, and a printer 3, and TV broadcast receive section 2 has become a thing with the tuner section 20 mentioned above, the demultiplexing section 21, and the voice output section 22 at least this case. this TV broadcast receive section 2 could be united with the TV monitor 1 like the gestalt of the 1st operation of the above-mentioned, and TV equipment is formed separately -- you may hear and come out.
[0038] A printer 3 To the image data input section 30 and this appearance which input the image data separated by the demultiplexing section 21 of TV broadcast receive section 2, by the demultiplexing section 21 The data about printing handed by the print-data input section 31 which inputs the data about separated printing, the printing directions receive section 32 which receives the printing directions from a user, and said TV broadcast receive section 2 through the print-data receive section 31 are analyzed. By the print-data analysis section 33 which obtains the information which shows existence of the data for printing, and the data for printing, and this print-data analysis section 33 Existence of the obtained data for printing The shown information and the image data separated in said demultiplexing section 21 It has composition with the image composition section 34 to compound, the video output section 35 which outputs the image data from this image composition section 34 to the TV monitor 1, the printing processing section 36 which performs printing processing in response to the data for printing from said print-data analysis section 33, a paper tray 37, a paper output tray 38, etc. In addition, the explanation about the part which is not directly related when explaining this invention, although various components for achieving the function as a printer besides these components exist is omitted.
[0039] A concrete example is explained in such a configuration. First, the printer 3 of such a configuration is connected as one of the TV systems of a user. In this case, it connects so that the data about printing may be inputted into the print-data input section 31, and as shown in drawing 5 , it connects further so that the video signal from the video output section 35 of a printer 3 may be outputted to the TV monitor 1, so that the image data separated in TV broadcast receive section 2 may be inputted into the image data input section 30.
[0040] The case where a certain goods are advertized using TV broadcast is explained like the gestalt of the 1st operation of the above-mentioned. While the image of the goods used as the candidate for advertisement projects on the TV monitor 1 with the image data and voice data of TV broadcast signal now, the explanation about the goods is made by voice. After the data about printing multiplexed by this TV broadcast signal are divided into coincidence in the demultiplexing section 21 of TV broadcast

receive section 2, it is sent to it through the print-data input section 31 at the print-data analysis section 33.

[0041] The print-data analysis section 33 analyzes the data about sent printing. The data about this printing are described from the language according to HTML, as shown in drawing 2 .

[0042] In drawing 2 , the range which the part surrounded with the tag <print_system> and the tag </print_system> processes is shown. And the received-data analysis section 27 passes "Press" Print", then catalog will be printed out" to the image composition section 34 as information which shows existence of the data for printing in the part surrounded with the tag <print_display> and the tag </print_display>, i.e., this case. In the image composition section 34, it compounds with the image data with which this "Press" Print", then catalog will be printed out" were separated in TV broadcast receive section 2. The compounded image data is sent to the TV monitor 1 by the video output section 35, and is projected on the TV monitor 1.

[0043] Drawing 3 shows the contents projected on the TV monitor 1. The information ("Press" Print", then catalog will be printed out") 12 which indicates it to be the image of the goods 11 which are the candidates for advertisement that the data for printing exist to the goods 11 is shown by the example of drawing 3 .

[0044] A user looks at this information 12, and when you want detailed information, he inputs a printing directions demand. Thereby, the printing directions receive section 32 receives the printing directions demand, and tells the print-data analysis section 33. The print-data analysis section 33 will send the data for printing to the printing processing section 36, if it recognizes that there were printing directions. The data for printing at this time are the part surrounded with the tag <print_document> and tag </print_document> of drawing 2 , and are contents which are called "Fashion Catalog", "Discount price is $300", etc. in this case.

[0045] In the printing processing section 36, after performing printing processing to the print sheet to which paper was fed from the medium tray 37, paper is delivered to a paper output tray 38.

[0046] Drawing 6 is the flow chart explaining the procedure of the gestalt of this 2nd operation explained above. Although there are also many parts which overlap old explanation, it explains further using this flow chart. First, a favorite channel is chosen by TV broadcast receive section 2 (step s21). And the demultiplexing section 21 separates image data, voice data, and the data about printing (step s22). Data concerning [voice data] printing to the voice output section 22 are sent for the image data separated here to the image composition section 34 through the print-data input section 31 to the print-data analysis section 33 through the image data input section 30, respectively.

[0047] Next, it judges whether the print-data analysis section 33 analyzed the data about printing (step s23), and received the data about printing (step s24). If the data about printing are received, as mentioned above as information which shows existence of the data for printing, contents, such as "Press" Print", then catalog will beprinted out", will be first passed to the image composition section 34 (step s25).

[0048] In the image composition section 34, such contents are compounded to the image data of TV broadcast signal, and it is sent to the video output section 35 (step s26).

[0049] And if it judges whether the printing directions receive section 32 received the printing directions demand from a user (step s27) and a printing directions demand is received, printing directions will be taken out to the print-data analysis section 33 (step s28). In response, as for the print-data analysis section 33, delivery (step s29) and the printing processing section 36 perform printing processing for the data for printing in the printing processing section 36 (step s30).

[0050] The above processing is performed only when the printer 3 is connected to TV system by the side of a user. That is, only within the case where the printer 3 shown with the gestalt of this 2nd operation is connected, the information which shows existence of the data for printing is displayed on the TV monitor 1, and when the user who looked at it inputs printing directions, the data for printing are printed out from a printer 3.

[0051] Therefore, the information which shows existence of the data for printing to a user's TV monitor 1 to which a printer is not connected is not displayed at all, but only TV broadcast from the first is

broadcast. That is, in this example, while the image over goods 11 projects on the TV monitor 1, it is [that explanation with voice is only made, and], and the information which shows that the data for printing exist is not displayed.
[0052] That is, when the printer 3 is not connected, processing (processing of step s23 in drawing 6 to the step s30) which was mentioned above to the data about printing separated by the demultiplexing section 21 is not performed.
[0053] The user who is not connecting a printer 3 since the information which shows existence of the data for printing to a viewer's TV monitor 1 to which a printer 3 is not connected by this is not displayed at all does not need to look at the troublesome display of the purport in which the data for printing exist one by one, and loses giving the displeasure by the display which is almost unrelated for the user who does not connect a printer being made.
[0054] And since such processing can be performed by TV system side by the side of a user, it is the dispatch origin of TV broadcast, the condition (****** [that there is a printer] etc.) of many users' system is grasped, and it can be managed even if it does not perform complicated processing in which create the contents of broadcast corresponding to it, and it transmits.
[0055] In addition, in the gestalt of the 1st explained above and the 2nd operation, it also becomes [whether the part by which the print-data analysis section 25 (the gestalt of the 2nd operation print-data analysis section 33) was surrounded with the tag <print_system> and tag </print_system> in the data about printing is valid till when, and] a technical problem how it recognizes. That is, it is because TV broadcast needs to constitute the data about printing corresponding to it in order to change serially.
[0056] In order to cope with this, the contents of TV broadcast are synchronized in the data about printing, and it can solve by describing a tag <print_system_cancel> and a tag </print_system_cancel>. That is, the print-data analysis section 25 (the gestalt of the 2nd operation print-data analysis section 33) will make an invalid the data about printing received before more nearly serially than it, if a tag <print_system_cancel> and a tag </print_system_cancel> are received.
[0057] Moreover, the part surrounded with the tag <print_document> and the tag </print_document> can also be described using URL (Uniform Resource Locator). In this case, in a user's TV system, print data can be incorporated and printed by forming an accessible means in a Web server.
[0058] In addition, this invention is not limited to the gestalt of the operation explained above, and the deformation implementation of it is variously attained in the range which does not deviate from the summary of this invention. Moreover, the processing program which processes this invention explained above can be made to record on record media, such as a floppy disk, an optical disk, and a hard disk, and this invention also contains the record medium. Moreover, you may make it obtain a processing program from a network.
[0059]
[Effect of the Invention] As explained above, according to this invention, it detects whether the printer is connected in TV broadcast receive section. If the information which shows existence of the data for printing is compounded to said TV broadcast signal, it outputs to said TV monitor and the printing directions demand from a user is received only when it detects that the printer is connected Since he is trying to output said data for printing to said printer, to a viewer's TV monitor to which a printer is not connected Since the information which shows existence of print data is not displayed at all, the user who is not connecting the printer It is not necessary to see the troublesome display of the purport in which print data exist one by one, and can prevent giving the displeasure by the display which is almost unrelated for the user who is not connecting the printer being made.
[0060] Moreover, TV broadcast receive section separates TV broadcast signal and the data about printing. The data about printing to which the data about printing were handed by TV broadcast receive section in the delivery and printer side at said printer side are analyzed. If the information and the data for printing in which existence of the data for printing is shown are obtained, and the information which shows existence of said data for printing is compounded to said TV broadcast, it outputs to said monitor and the printing directions from a user are received The information which shows existence of the data for printing can make it not display without by connecting this printer by giving the function which

carries out printing processing of said data for printing on a monitor. By this In a viewer's TV monitor to which a printer is not connected Since the information which shows that there are print data is not displayed at all, the user who is not connecting the printer like the above-mentioned It is not necessary to see the troublesome display of the purport in which print data exist one by one, and can prevent giving the displeasure by the display which is almost unrelated for the user who is not connecting the printer being made.

[0061] Thus, on TV monitor of a user without a printer, this invention is that the display about unrelated printing is made not to be made for the user, and giving a user the displeasure by an unrelated screen display being made frequently of it is lost. And since such processing can be performed by a user's TV system side, it is the dispatch origin of TV broadcast, the condition (****** [that there is a printer] etc.) of the system by the side of many users is grasped, and it can be managed even if it does not perform complicated processing in which create the contents of broadcast corresponding to it, and it transmits.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]
[Drawing 1] The system configuration Fig. explaining the gestalt of operation of the 1st of this invention.
[Drawing 2] Drawing showing the example which described the data about printing used in the gestalt of operation of this invention in the format based on HTML.
[Drawing 3] Drawing showing the example of an image displayed on TV monitor in the gestalt of operation of this invention.
[Drawing 4] The flow chart explaining the procedure of the gestalt of operation of the 1st of this invention.
[Drawing 5] The system configuration Fig. explaining the gestalt of operation of the 2nd of this invention.
[Drawing 6] The flow chart explaining the procedure of the gestalt of operation of the 2nd of this invention.
[Description of Notations]
1 TV Monitor
2 TV Broadcast Receive Section
3 Printer
20 Tuner Section
21 Demultiplexing Section
22 Voice Output Section
23 Printer Connection Detecting Element
24 32 Printing directions receive section
25 33 Print-data analysis section
26 34 Image composition section
27 35 Video output section
28 Printer Control Section
30 Image Data Input Section
31 Print-Data Input Section
36 Printing Processing Section
37 Medium Tray
38 Paper Output Tray

[Translation done.]

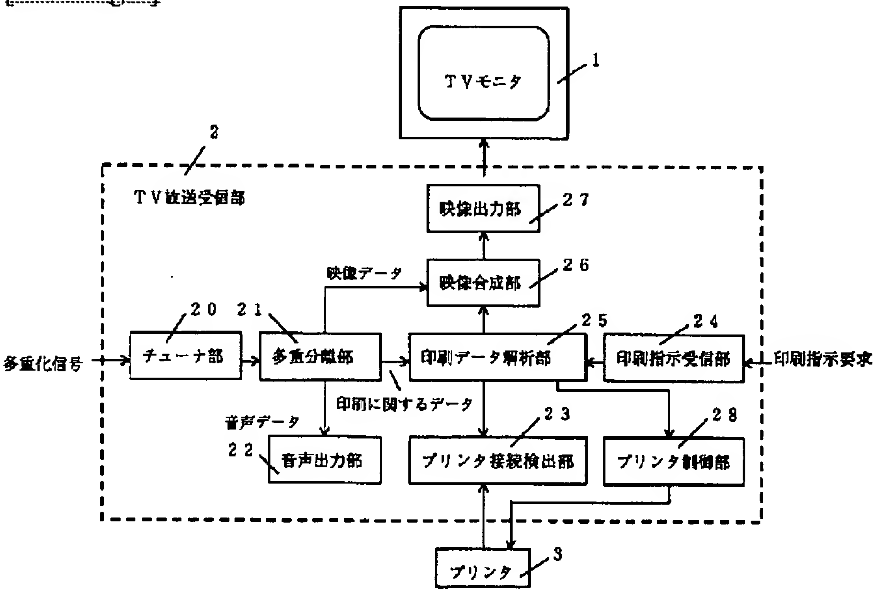
* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

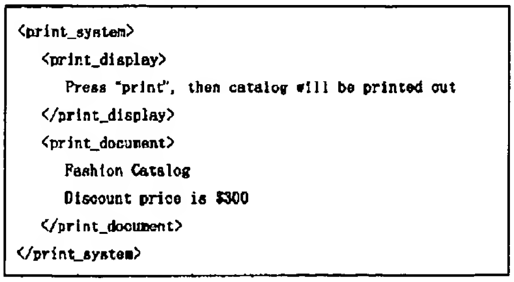
DRAWINGS

[Drawing 1]


TVモニタ
1
2
TV放送受信部
映像出力部
27
映像データ
映像合成部
26
20
21
25
24
多重化信号
チューナ部
多重分離部
印刷データ解析部
印刷指示受信部
印刷指示要求
印刷に関するデータ
音声データ
23
28
22
音声出力部
プリンタ接続検出部
プリンタ制御部
プリンタ
3

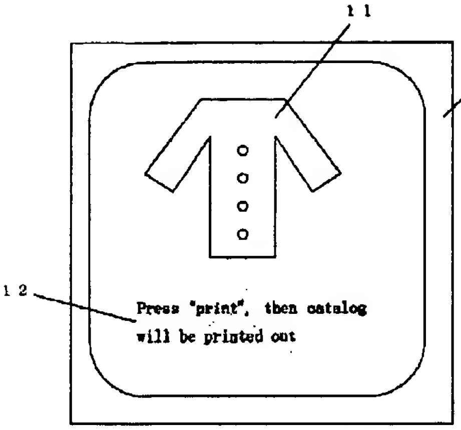
[Drawing 2]

（印刷に関するデータ）

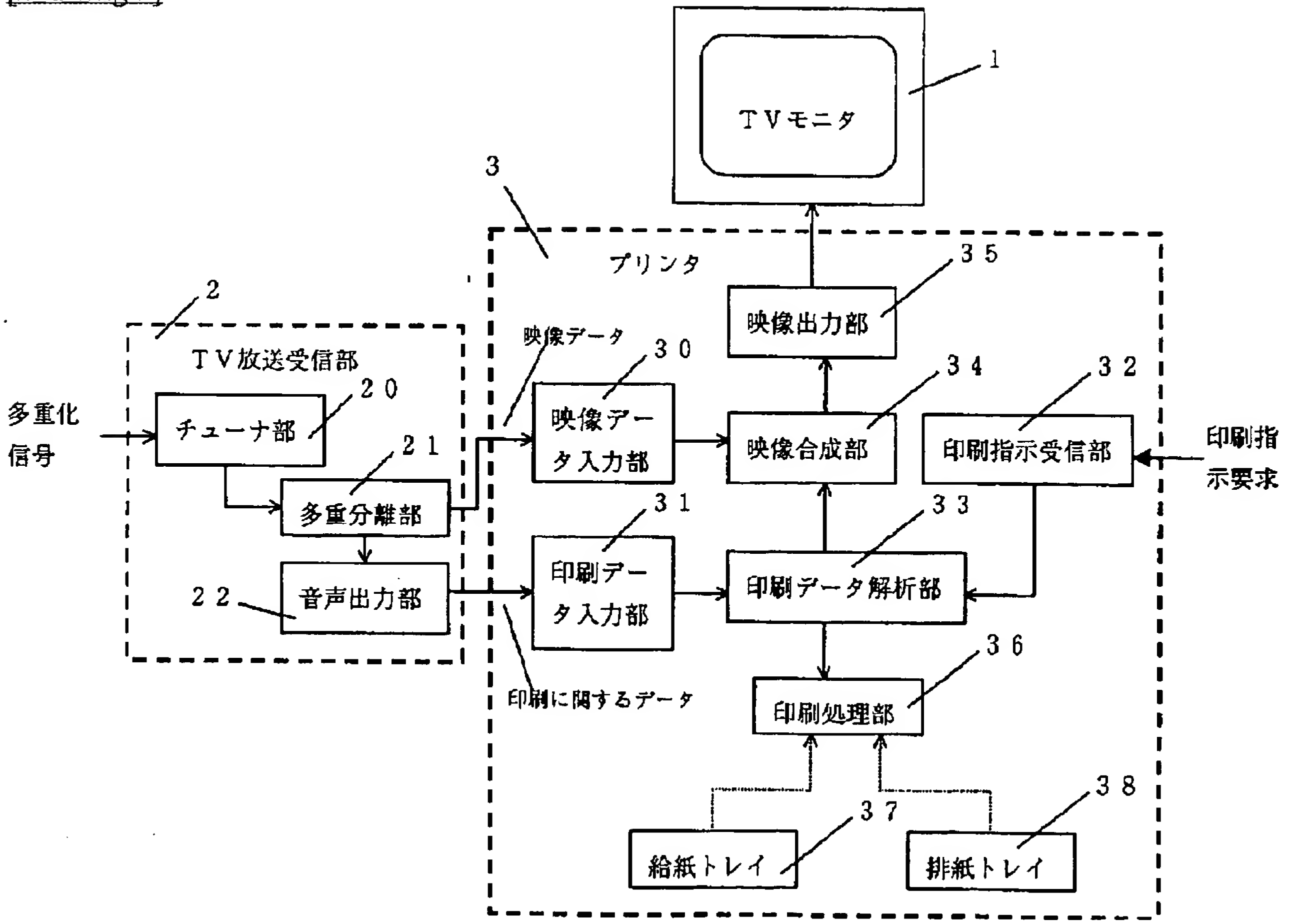


```
<print_system>
   <print_display>
      Press "print", then catalog will be printed out
   </print_display>
   <print_document>
      Fashion Catalog
      Discount price is $300
   </print_document>
</print_system>
```

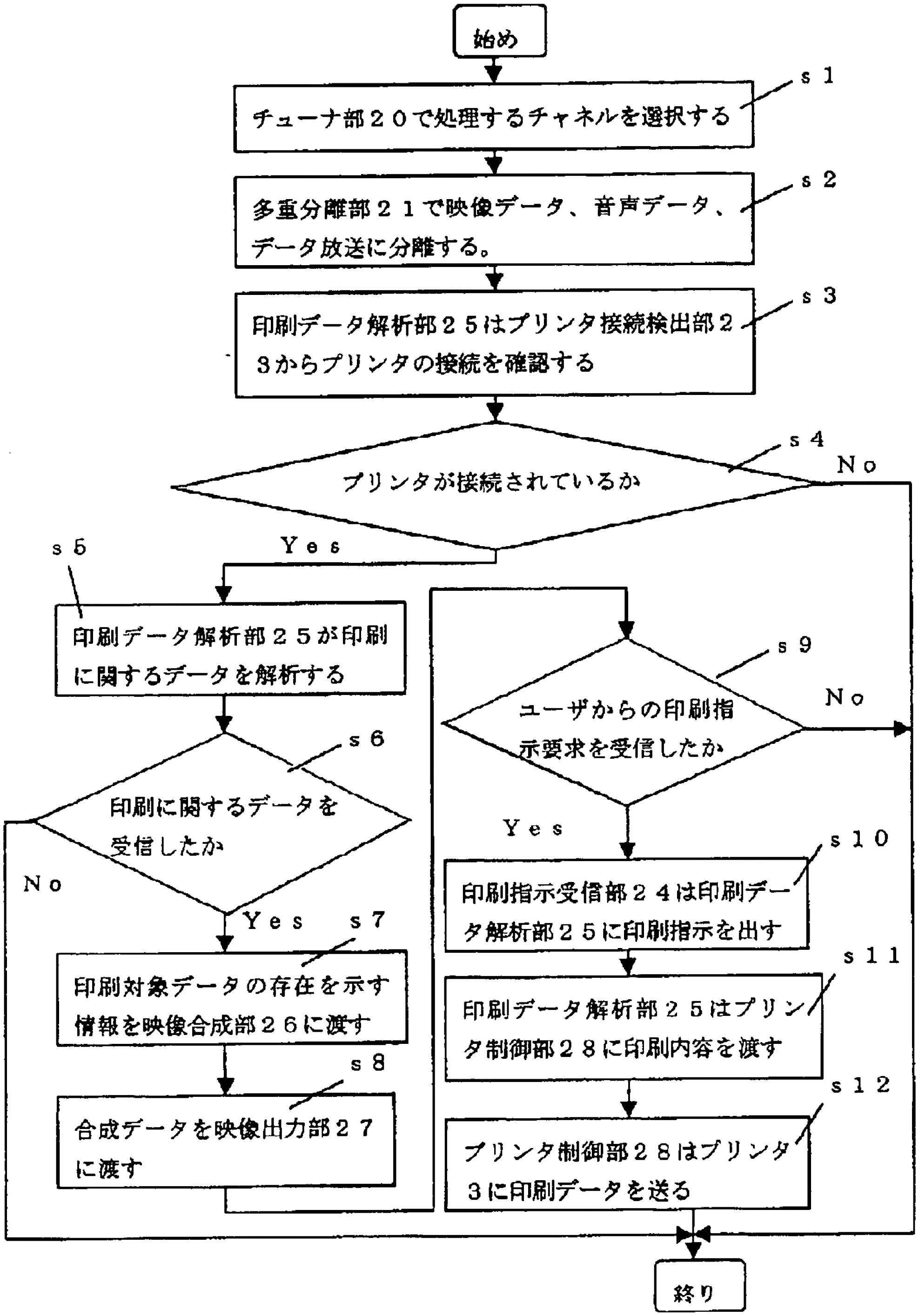
[Drawing 3]


1 1
1
1 2
Press "print", then catalog
will be printed out

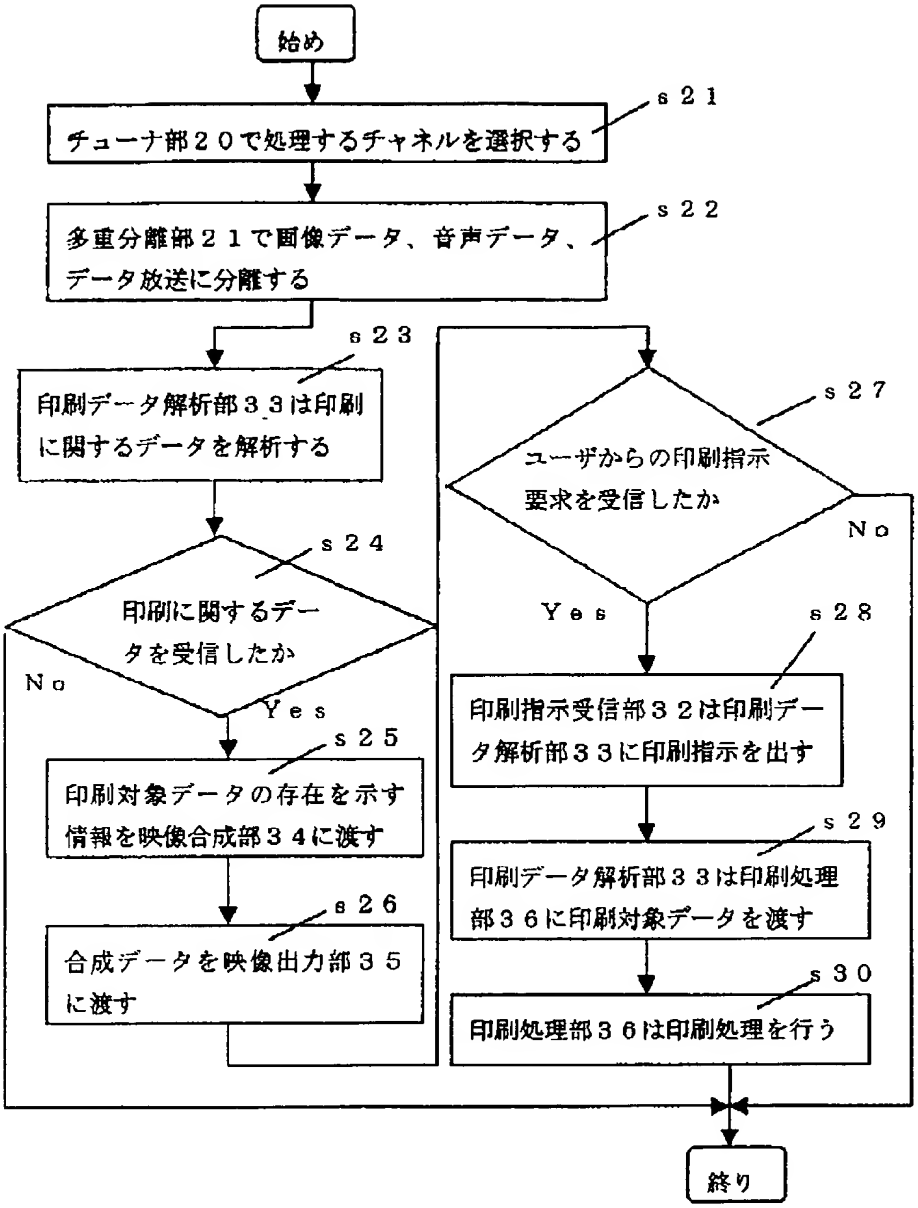
[Drawing 5]


1
ＴＶモニタ
3
プリンタ
3 5
映像出力部
2
ＴＶ放送受信部
映像データ
3 0
3 4
3 2
多重化
信号
2 0
チューナ部
2 1
映像データ入力部
映像合成部
印刷指示受信部
印刷指
示要求
多重分離部
3 1
3 3
2 2
音声出力部
印刷データ入力部
印刷データ解析部
3 6
印刷に関するデータ
印刷処理部
3 7
3 8
給紙トレイ
排紙トレイ

[Drawing 4]


始め
s 1
チューナ部２０で処理するチャネルを選択する
s 2
多重分離部２１で映像データ、音声データ、データ放送に分離する。
s 3
印刷データ解析部２５はプリンタ接続検出部２３からプリンタの接続を確認する
s 4
プリンタが接続されているか
No
Yes
s 5
印刷データ解析部２５が印刷に関するデータを解析する
s 6
印刷に関するデータを受信したか
No
Yes
s 7
印刷対象データの存在を示す情報を映像合成部２６に渡す
s 8
合成データを映像出力部２７に渡す
s 9
ユーザからの印刷指示要求を受信したか
No
Yes
s 1 0
印刷指示受信部２４は印刷データ解析部２５に印刷指示を出す
s 1 1
印刷データ解析部２５はプリンタ制御部２８に印刷内容を渡す
s 1 2
プリンタ制御部２８はプリンタ３に印刷データを送る
終り

[Drawing 6]


始め
s21
チューナ部２０で処理するチャネルを選択する
s22
多重分離部２１で画像データ、音声データ、データ放送に分離する
s23
印刷データ解析部３３は印刷に関するデータを解析する
s24
印刷に関するデータを受信したか
No
Yes
s25
印刷対象データの存在を示す情報を映像合成部３４に渡す
s26
合成データを映像出力部３５に渡す
s27
ユーザからの印刷指示要求を受信したか
No
Yes
s28
印刷指示受信部３２は印刷データ解析部３３に印刷指示を出す
s29
印刷データ解析部３３は印刷処理部３６に印刷対象データを渡す
s30
印刷処理部３６は印刷処理を行う
終り

[Translation done.]